

Amendments to the Specification:

Please replace the last paragraph on page 1 with the following corrected paragraph:

However, usually produced plastic plates are relatively high in permeability of moisture and oxygen and ~~contains~~ contain moisture interior thereof. For example, when ~~such the paler~~ such plate is used in a display having an organic electroluminescent element, the moisture is gradually diffused into the element and causes a problem of lowering in the durability of the element by the diffused moisture.

Please replace second paragraph on page 4 with the following corrected paragraph:

One of the embodiments of the invention is a transparent conductive film having a transparent plastic film, a ~~[[as]]~~ barrier layer and a transparent conductive layer in which the refractive index is controlled so that the refractive index is continuously or stepwise reduced along the direction ~~[[of]]~~ from the surface having the transparent conductive layer to the other surface.

Please replace fourth paragraph on page 6 with the following corrected paragraph:

In the above transparent conductive ~~layer~~ film, the one surface of the transparent plastic film ~~one side may be~~ is either a surface of the transparent plastic film on which no gas barrier layer is provided or the outermost surface of the transparent conductive ~~layer~~ film.

Please replace third paragraph on page 9 with the following corrected paragraph:

A surface layer corresponding to 10 to 20% of the thickness of the thin layer to be measured should be removed before the measurement for avoiding the influence of contamination. For removing the surface layer, an ion gun capable of using a rare gas ion was preferably applied. As the ion species, He, Ne, Ar, Xe and Kr were usable. In the measurement, the surface layer was removed by Ar ion etching.

Please replace paragraph bridging pages 9 and 10 with the following corrected paragraph:

The obtained spectra were transferred to Common Data Processing Process (Preferably after Ver. 2.3) manufactured by VAMAS-SCA-Japan and processed by the same ~~soft-wear~~ software for canceling the difference in the content ratio calculation results caused by difference of the measuring apparatus, or computer. Thus the content of each of the target elements such as carbon, oxygen, silicon and titanium was obtained in the atomic concentration (at-%).

Please replace third paragraph on page 10 with the following corrected paragraph:

The transparent conductive film of the invention has the constitution in which at least one gas barrier layer is provided on the transparent plastic film having relatively low refractive index and the transparent conductive layer having relatively high refractive index is provided on the gas barrier layer as later-mentioned. As later-mentioned, the gas barrier layer may be ~~constituted~~ composed of a ~~[[by]]~~ single layer ~~[[of]]~~ or plural layers and is provided between the transparent conductive layer and the transparent plastic film. The refractive ~~index~~ indexes of

the materials constituting the transparent plastic and the films are, for example, 1.49 of PMA, 1.65 of PES (polyethersulfone), 1.60 of PET (polyethylene phthalate), 1.59 of polycarbonate, 1.51 of cycloolefin polymer, 1.48 of TAC (teriacetyl cellulose) and 1.30 of Teflon®.

Please replace second paragraph on page 13 with the following corrected paragraph:

As a result of the investigation by the inventors, it is found that the taking out efficiency of light can be considerably raised by providing a gas barrier layer between the transparent conductive layer having high refractive index and the plastic film, and between air and the plastic film ~~when the refractive index of the gas barrier layer has a refractive index being middle of them~~ provided that the refractive index of the gas barrier layer is set to be between that of the transparent conductive layer and that of the plastic film, or between that of air and that of the plastic film. Thus an organic EL element emitting high luminance light can be obtained.

Please replace fourth paragraph on page 27 with the following paragraph:

As the discharge container 11 constituting the plasma discharge treatment chamber 10, a treatment container made from Pyrex® glass is preferably employed, and a metal container can be used if it is isolated from the electrodes. For example, one constituted by a frame of aluminum ~~[[of]]~~ or stainless steel put with polyimide resin interior thereof or one constituted by such the frame isolated by thermally spraying ceramic can be used.

Please replace third paragraph on page 28 with the following corrected paragraph:

The mixed gas to be used for the plasma discharge treatment is introduced to the discharge container 11 from the gas supplying opening 12 and the ~~[[ages]]~~ gas after treatment is exhausted from the exhausting opening ~~[[15]]~~ 13.

Please replace fourth paragraph on page 29 with the following corrected paragraph:

The electrode is preferably one ~~constituted by a metal stuff~~ constituted by a metal covered with a dielectric material. It is preferable to cover at least one and more preferably both of the electrodes. The dielectric material is preferably an inorganic substance having a relative dielectric constant of from 6 to 45.

Please replace first full paragraph on page 31 with the following corrected paragraph:

In another method for covering the core material of the electrode by the dielectric material, the ceramics is finely melt-sprayed so as to make the porosity of not more than 10% by volume and the pores are sealed by an ~~in-organic~~ inorganic material curable by sol-gel reaction. Thermal or UV curing is suitable for accelerating the sol-gel reaction. Moreover, the mineralization is further improved and a fine electrode without deterioration can be obtained by alternatively repeating the coating of a diluted sealing liquid and curing thereof.

Please replace fifth paragraph on page 51 with the following corrected paragraph:

The substrate 5 has a constitution the same as the ~~transparent plastic film 100~~ substrate 1 except that the transparent conductive layer 2 is omitted.

Please replace Table 2 on page 68 with the following corrected Table:

Table 2

Transparent conductive film No.	Variation of refractive index *1	Transmittance (%) *2	Gas barrier ability *3		Remarks
			Steam permeation rate g/m ² /d	Oxygen permeation rate ml/m ² /d	
1	Yes No	81	5.9	3.8	Comp.
2	Yes No	85	280	440	Comp.
3	No Yes	90	1.0	0.95	Inv.
4	No Yes	91	0.93	0.80	Inv.
5	No Yes	92	0.34	0.25	Inv.
6	No Yes	93	0.22	0.21	Inv.
7	No Yes	93	0.17	0.21	Inv.
8	No Yes	93	0.14	0.11	Inv.
9	No Yes	94	<0.1	<0.1	Inv.

*1: The refractive index is continuously or stepwise reduced or not along the direction from the surface having the transparent

Appl. No. 10/594,096

Reply to Office Action of December 30, 2008

conductive layer to the other surface Yes: The refractive index is continuously or stepwise reduced No: The refractive index is reduced not continuously nor stepwise

*2: Light transmittance after formation of ITO layer

*3: Gas barrier ability before formation of ITO layer Comp.: Comparative, Inv.: Inventive